

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number  
**WO 2005/003784 A1**

- (51) International Patent Classification<sup>7</sup>: G01N 33/68 (74) Agent: FRANK B. DEHN & CO.; 179 Queen Victoria Street, London EC4V 4EL, (GB).
- (21) International Application Number: PCT/GB2004/002271 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 27 May 2004 (27.05.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0315525.6 2 July 2003 (02.07.2003) GB
- (71) Applicant (for TT only): GARDNER, Rebecca [GB/GB]; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL, (GB).
- (71) Applicants and
- (72) Inventors: NORDLUND, Pär [SE/SE]; Roslagsgatan 47, S-113 54 Stockholm (SE). CORNVIK, Tobias [SE/SE]; Fyrskeppsvägen 118 2 Tr, S-121 54 Johaneshov (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DAHLROTH, Sue-Li [SE/SE]; Fyrskeppsvägen 118 2 Tr., S-121 54 Johaneshov (SE). KNAUST, Rose-Marie [DE/DE]; Muenchener Str. 27a, D-82131 Gauting (DE).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD OF SCREENING FOR CELL COLONIES THAT EXPRESS A SOLUBLE VARIANT OF A TARGET PROTEIN

(57) Abstract: The present invention concerns a method of identifying a cell colony which expresses a soluble variant of a target protein which method comprises (a) subjecting the cell colony to conditions which are capable of causing lysis thereof; (b) filtering the lysate through a filter having pores which allow only soluble proteins to pass through the filter; and (c) detecting target protein which has passed through the filter where the target is not detected on the basis of its own enzymatic activity. The invention further covers the identification of a cell colony expressing a soluble variant of a membrane protein using steps (a) and (b) of the method above. A kit for use in the methods is also covered by the invention.